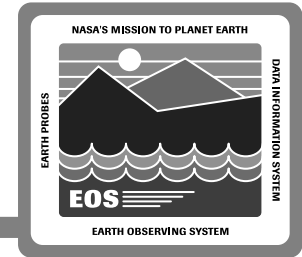


Release B System Acceptance Test Plan

Sherhonda Adams

31 March 1995

Release B System Acceptance Test Plan (ATP)



ATP Outlines the Acceptance Test Process

- Preliminary Detailed to Scenario Level is Delivered at RIR
- Builds on Release-A Scenarios
- Final ATP Detailed to Test Case Level is Delivered at IDR
- Followed by Preliminary Acceptance Test Procedures Document Delivered at TRR

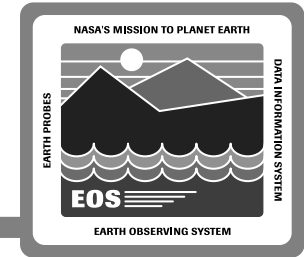
Uses ECS Source Material

- ECS Operations Concept
- Scenario Notebook
- Release Plan
- F&PRS, IRDs, ICDs

Mapped into Five Scenario Groups

- System Management, Push, Pull, Flight Operations & End-to-End

Release B System Acceptance Test Plan



Contents of this draft:

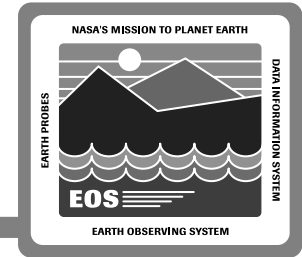
Sections 1 through 7 - Address the introduction, related documentation, test plan overview, System Acceptance Test Criteria, test responsibilities, resource requirements and the Release B Acceptance Test Overview.

Section 8 - The System Management Scenario Group specifies the Acceptance Test plans that demonstrate ECS readiness to perform system and site management functions.

Section 9 - The Push Scenario Group specifies Acceptance Test plans for evaluating ECS ingest and preprocessing procedures.

Section 10 - The Pull Scenario Group specifies Acceptance Test plans for evaluating ECS services necessary to search, access and retrieve data holdings at each site.

Release B System Acceptance Test Plan (cont.)



Contents of this draft: (cont.)

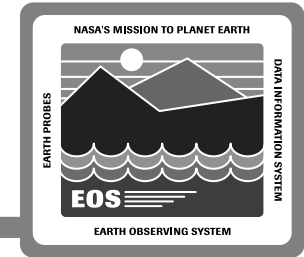
Section 11 - The Flight Operations Scenario Group specifies Acceptance Test plans for evaluating Release B functions that apply to EOS AM-1 flight operations.

Section 12 - The End-to-End Scenario Group specifies Acceptance Test Plans for evaluating ECS capabilities for supporting inter-site communications, end-to-end mission support, science data handling and processing and system performance.

Acronyms - Addresses acronyms used within this document.

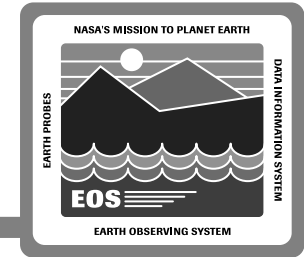
Glossary - Definitions of terms used within this document.

8. ECS System Management Scenario Group



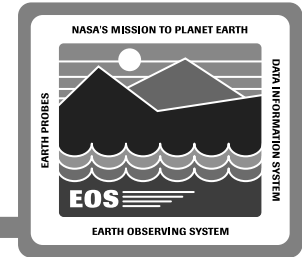
- **ECS Site M&O Support Scenario - Site start-up, shutdown and recovery**
- **Scheduling Scenario - Schedule generation and conflicts**
- **ECS Site Upgrade Scenario - Site upgrades and enhancements**
- **Resource Management Scenario - Configuration, maintenance, inventory, logistics and training of resources**
- **Performance Management Scenario - Access and display system performance parameters and metrics and detect operational trends**
- **Management Services Scenario - Network, fault and security management**
- **Ancillary Services Scenario - Collect, control, maintain and distribute ECS system level policies and procedures**

9. Push Scenario Group



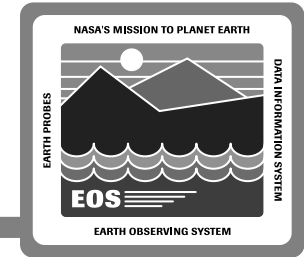
- **Data Ingest/Process/Archive Scenario** - Receiving, processing and archiving data from external sources
- **Higher Level Processed Data Scenario** - Verify higher level data receipt, extract, verify and archive metadata
- **Reprocessing Scenario** - Reprocess instrument related standard products
- **TSDIS Reprocessing Support Scenario** - Reprocessing of TSDIS data sets
- **Mission Related Data Processing Scenario** - Processing, ingesting and making available previously undefined mission related data
- **On-Demand Processing Scenario** - Processing users on-demand processing request of products created from data ingested by data centers
- **Data Acquisition Request Processing Scenario** - Process of planning for and receiving higher level ASTER data

10. Pull Scenario Group



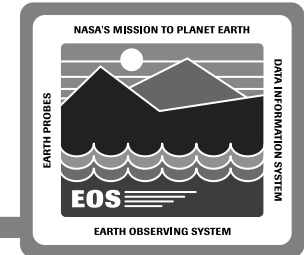
- **Discipline/DAAC Oriented Science Scenario - Search, access and view ECS and Version 0 data stored at a DAAC**
- **Science Computing Facility (SCF) User Scenario - Develop and maintain standard data production software, perform QA, etc.**
- **Interdisciplinary/Inter-DAAC Science Scenario - Search, access and view ECS and non-ECS data at multiple ECS DAACs, V0 DAACs, the CIESIN SEDAC and NOAA ADC**
- **Alaska SAR Facility (ASF) DAAC Data Access Scenario - Search, access and view ECS and V0 data stored at the ASF DAAC and to access ADC/ODC data via the ASF DAAC.**

11. FOS Scenario Group



- **Pre-Contact Scenario - Initialize system resources to an operational state ready for contact**
- **Contact Scenario - Establish spacecraft contact, transmit commands for spacecraft and instruments and initialize reception of recorded health and science data**
- **Post-Contact Scenario - Post-contact actions leading to an orderly return of FOS resources, telemetry analysis and trend analysis is performed**

12. End-to-End Scenario Group



- **Multi-Site Intercommunications Scenario - Between ECS sites and with external I/F**
- **AM-1 End-to-End Scenario - Mission operations**
- **Hydrology and Cloud Dynamics Scenario - Science data operations for TRMM and AM-1 CERES data/products**
- **Atmospheric Dynamics Scenario - Ingest, processing, archiving and distribution for AM-1 MODIS data/products**
- **Atmospheric Chemistry and Radiation Scenario - Ingest, processing, archiving and distribution for MISR, MOPITT, ACRIM and SAGE III data/products**
- **Land Processes Scenario - ASTER science data operations, ASTER DARs and Landsat-7 science data operations**
- **Ocean and Polar Processes Scenario - COLOR, SeaWinds, SSALT and SAR science data operations**
- **Science Data Interoperability Scenario - Interoperability with V0, NOAA, ASTER GDS, cross-DAAC searches**
- **System Performance Scenario - Overall ECS performance**